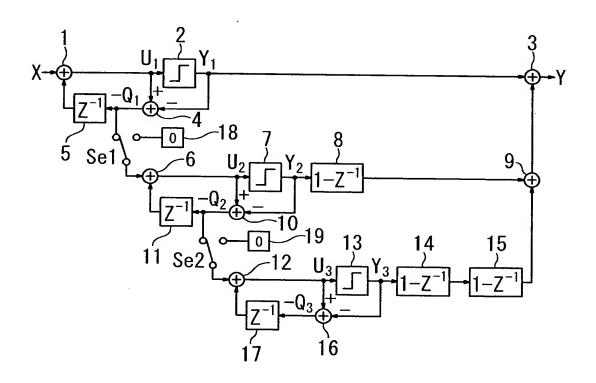
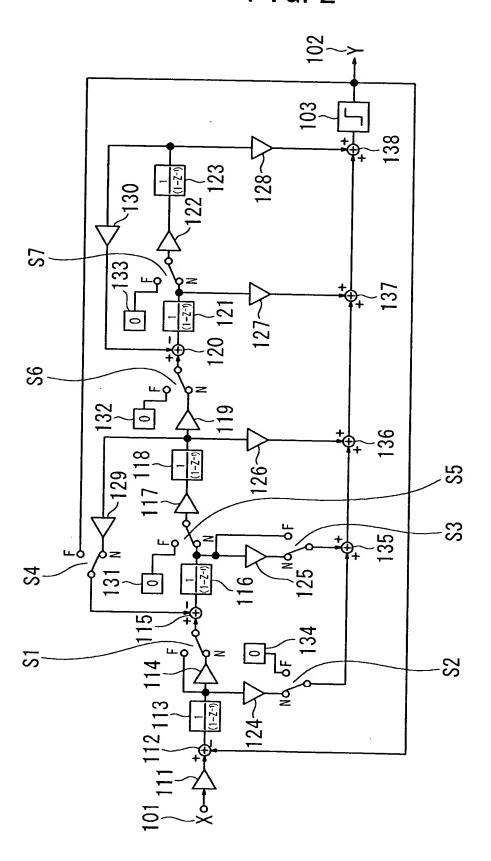
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FIG. 1



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FIG. 2



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FIG. 3

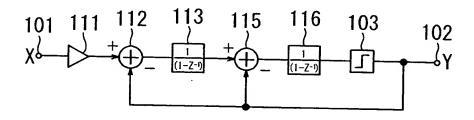


FIG. 4

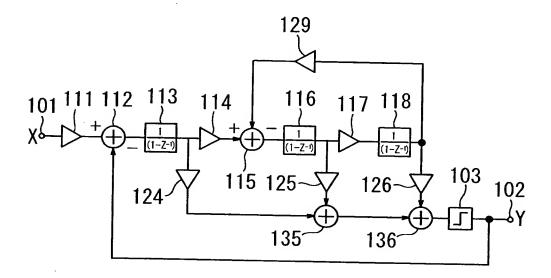


FIG. 5

	S1	S2	\$3	S4	S5	S6	S7	
5th order	N	N	N	N	N	N	N	
4th order	N	N	N	N	N	N	F	
3rd order	N	N	N	N	N	F	F	
2nd order	F	F	F	F	F	F	F	

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FIG. 6

sampling frequency	optimum order			
8KHz	second			
16KHz	fourth			
32KHz	fifth			
44. 1KHz	fourth (or fifth)			
48KHz	fifth			

FIG. 7

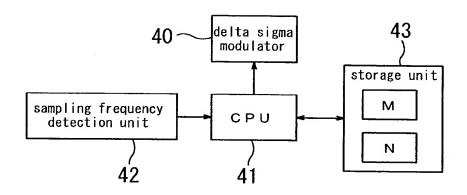


FIG. 8

50
51
52
53

over-sampling circuit waveform shaper LPF

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FIG. 9

